

Serial No. 10/594,867

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Amendments to the Claims

Please amend claims 16-17.

1-13. (Cancelled).

14. (Withdrawn) Optical motor for a projection system, said motor being intended to project an image on a screen defining a specified projection plane, said motor comprising:

- an imager designed to create said imaging beam; and
- illumination means which themselves comprise a light source and focusing means, creating an illumination beam, and means for deflecting said illumination beam onto said imager,

wherein said motor further includes a projection-module comprising:

- an objective, which comprises means for emitting an imaging beam; and
- a curved mirror,
- at least two deflection surfaces for deflecting said imaging beam, these surfaces being placed in the path of said imaging beam between said objective and said curved mirror,

and wherein said means for deflecting said illumination beam comprise at least two separate deflection surfaces for deflecting said illumination beam.

15. (Withdrawn) Motor according to Claim 14, wherein the portion of said illumination beam not reflected by one of said deflection surfaces makes an angle of less than 10° with the portion of said imaging beam not reflected by one of said deflection surfaces.

16. (Currently Amended) Projection system, comprising:

- an illumination means that generates an illumination beam;
- an imager that creates an imaging beam from the illumination beam, the imaging beam being representative of an image;
- a projection module intended to project the image on a screen defining a specified projection plane, said module comprising:

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an objective for refracting the imaging beam, having a refractive portion comprising lenses; and  
a curved mirror for deflecting the imaging beam, which is located below the optical axis of the objective,  
at least two plane deflection surfaces for deflecting the imaging beam emanating from the objective, these plane surfaces being placed in the path of the imaging beam between the objective and the curved mirror.

wherein the curved mirror is:

either a hyperbolic mirror which is placed on the exit side of the objective in such a way that the axis of the hyperbola passing through the foci of the hyperbola coincides with the optical axis the objective, or

either an aspheric mirror having an assymmetric axisymmetric shape defining an optical axis that coincides with the optical axis of the objective.

17. (Currently Amended) Projection system according to Claim 16, wherein it the projection system comprises a projection screen, the projection module illuminating the projection screen via the rear.

18. (Previously Presented) Projection system according to Claim 16, wherein the angle between the optical axis of the objective and the projection plane does not exceed 10°.

19. (Previously Presented) Projection system according to Claim 18, wherein, when the projected image is rectangular, the angle between the optical axis of the objective and the long side of the image projected on the screen does not exceed 10°.

20. (Previously Presented) Projection system according to Claim 18, wherein, when the projected image is rectangular, the angle between the optical axis of the objective and the short side of the image projected on the screen does not exceed 25°.